

Xaa Xaa His Xaa Xaa Xaa Xaa Xaa His
20 25

<210> 2
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:ZFP target site
with two overlapping D-able subsites

<220>
<221> modified_base
<222> (1)..(2)
<223> n = g, a, c or t

<220>
<221> modified_base
<222> (5)
<223> n = g, a, c or t

<220>
<221> modified_base
<222> (8)
<223> n = g, a, c or t

<220>
<221> modified_base
<222> (9)
<223> n = a, c or t; if g, then position 10 cannot be g
or t

<400> 2
nngkngknnn

10

<210> 3
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:ZFP target site
with three overlapping D-able subsites

<220>
<221> modified_base
<222> (1)..(2)
<223> n = g, a, c or t

<220>
<221> modified_base
<222> (5)
<223> n = g, a, c or t

T08230"054T4660

<220>
<221> modified_base
<222> (8)
<223> n = g, a, c or t

<400> 3
nngkngkngk

10

<210> 4
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:linker

<400> 4
Asp Gly Gly Gly Ser
1 5

<210> 5
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:linker

<400> 5
Thr Gly Glu Lys Pro
1 5

<210> 6
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:linker

<400> 6
Leu Arg Gln Lys Asp Gly Glu Arg Pro
1 5

<210> 7
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:linker

T08230"0544650

<400> 7
Gly Gly Arg Arg
1

<210> 8
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:linker

<400> 8
Gly Gly Gly Gly Ser
1 5

<210> 9
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:linker

<400> 9
Gly Gly Arg Arg Gly Gly Gly Ser
1 5

<210> 10
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:linker

<400> 10
Leu Arg Gln Arg Asp Gly Glu Arg Pro
1 5

<210> 11
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:linker

<400> 11
Leu Arg Gln Lys Asp Gly Gly Gly Ser Glu Arg Pro
1 5 10

TF03230"054T4660

<210> 12
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:linker

<400> 12
Leu Arg Gln Lys Asp Gly Gly Gly Ser Gly Gly Gly Ser Glu Arg Pro
1 5 10 15

<210> 13
<211> 97
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:ZFP sequence in
control construct

<400> 13
Val Pro Gly Lys Lys Lys Gln His Ile Cys His Ile Gln Gly Cys Gly
1 5 10 15
Lys Val Tyr Gly Gly His Asp Thr Val Val Gly His Leu Arg Trp His
20 25 30
Thr Gly Glu Arg Pro Phe Met Cys Thr Trp Ser Tyr Cys Gly Lys Arg
35 40 45
Phe Thr Ala Ala Asp Glu Val Gly Leu His Lys Arg Thr His Thr Gly
50 55 60
Glu Lys Lys Phe Ala Cys Pro Glu Cys Pro Lys Arg Phe Met Leu Val
65 70 75 80
Val Ala Thr Gln Leu His Ile Lys Thr His Gln Asn Lys Lys Gly Gly
85 90 95

Ser

<210> 14
<211> 292
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:designed ZFP
construct (from KpnI to BamHI) targeting 9-base
pair target site in VEGF promoter

<220>

00041450-000001

<221> CDS
 <222> (2)..(292)

<400> 14

g gta ccg ggc aag aag aag cag cac atc tgc cac atc cag ggc tgt ggt 49
 Val Pro Gly Lys Lys Lys Gln His Ile Cys His Ile Gln Gly Cys Gly

1 5 10 15

aaa gtt tac ggc cgc tcc gac aac ctg acc cgc cac ctg cgc tgg cac 97
 Lys Val Tyr Gly Arg Ser Asp Asn Leu Thr Arg His Leu Arg Trp His
 20 25 30

acc ggc gag agg cct ttc atg tgt aca tgg tcc tac tgt ggt aaa cgc 145
 Thr Gly Glu Arg Pro Phe Met Cys Thr Trp Ser Tyr Cys Gly Lys Arg
 35 40 45

ttc acc aac cgc gac acc ctg gcc cgc cac aag cgt acc cac acc ggt 193
 Phe Thr Asn Arg Asp Thr Leu Ala Arg His Lys Arg Thr His Thr Gly
 50 55 60

gag aag aaa ttt gct tgt ccg gaa tgt ccg aag cgc ttc atg cgc tcc 241
 Glu Lys Lys Phe Ala Cys Pro Glu Cys Pro Lys Arg Phe Met Arg Ser
 65 70 75 80

gac cac ctg tcc aag cac atc aag acc cac cag aac aag aag ggt gga 289
 Asp His Leu Ser Lys His Ile Lys Thr His Gln Asn Lys Lys Gly Gly
 85 90 95

tcc 292
 Ser

<210> 15

<211> 97

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence:designed ZFP
 construct (from KpnI to BamHI) targeting 9-base
 pair target site in VEGF promoter

<400> 15

Val Pro Gly Lys Lys Lys Gln His Ile Cys His Ile Gln Gly Cys Gly
 1 5 10 15

Lys Val Tyr Gly Arg Ser Asp Asn Leu Thr Arg His Leu Arg Trp His
 20 25 30

Thr Gly Glu Arg Pro Phe Met Cys Thr Trp Ser Tyr Cys Gly Lys Arg
 35 40 45

Phe Thr Asn Arg Asp Thr Leu Ala Arg His Lys Arg Thr His Thr Gly
 50 55 60

Glu Lys Lys Phe Ala Cys Pro Glu Cys Pro Lys Arg Phe Met Arg Ser
 65 70 75 80

054450.03301

Asp His Leu Ser Lys His Ile Lys Thr His Gln Asn Lys Lys Gly Gly
85 90 95

Ser

<210> 16
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer
hVEGFU1

<400> 16
gaattctgtg ccctcactcc cctgg 25

<210> 17
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer
VEGFD2

<400> 17
accgcttacc ttggcatggt ggagg 25

<210> 18
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer
hVEHFU2

<400> 18
acacaccttg ctgggtacca ccatg 25

<210> 19
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer
VEGFD1

TOPSECRET

<400> 19
gcagaaagtc catggtttcg gaggcc 26

<210> 20
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer
VEGFU2

<400> 20
tgtttagaag atgaaccgta agcct 25

<210> 21
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer
VEGFD2

<400> 21
accgcttacc ttggcatggt ggagg 25

<210> 22
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer
mVEGF

<400> 22
gccccattg gtaccctggc ttcagttccc tggcaaca 38

<210> 23
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer
VEGFD

<400> 23
gcagaaagtc catggtttcg gaggcc 26